Write your name here

Surname	Other names

Edexcel GCE

Centre Number	Candidate Number

Music Technology

Advanced Subsidiary
Unit 2: Listening and Analysing

Wednesday 20 May 2009 – Afternoon
Time: 1 hour 45 minutes

Paper Reference
6MT02/01

You must have:
Individual CD player, headphones and
audio CD of recorded extracts.

Total Marks

Instructions
- Use **black** ink or ball-point pen.
- **Fill in the boxes** at the top of this page with your name, centre number and candidate number.
- Answer **all** questions.
- Answer the questions in the spaces provided
  – there may be more space than you need.
- If you are using a computer to play the CD, access to sequencing software is NOT permitted.
- You must ensure that the left and right earpieces of your headphones are worn correctly.
- You must write in continuous prose in questions 5 and 6.

Information
- The total mark for this paper is 80.
- The marks for **each** question are shown in brackets
  – use this as a guide as to how much time to spend on each question.
- Questions labelled with an **asterisk** (*) are ones where the quality of your written communication will be assessed
  – you should take particular care with your spelling, punctuation and grammar, as well as the clarity of expression, on these questions.
- Each question number refers to the relevant track number on the audio CD, e.g. Question 1 refers to Track 1, Question 2 to Track 2 etc.
- You may listen to each track as many times as you wish within the overall time limit of the paper.
- The use of the words 'instrument' or 'sounds' refers to vocals, acoustic instruments, electric/electronic instruments and electronically-generated sounds unless otherwise stated.

Advice
- Read each question carefully before you start to answer it.
- Keep an eye on the time.
- Try to answer every question.
- Check your answers if you have time at the end.

Turn over ▶

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SECTION A

Answer ALL questions

Write your answers in the spaces provided or, where appropriate, choose an answer and put a cross in the box ☒. If you change your mind about an answer, put a line through the box ☒ and then mark your new answer with a cross ☒.

1 Blur: *To The End*

Track 1: Music begins at 0'43"

(a) Blur could best be described as a Britpop Band. Which of the following bands was most influential on the Britpop bands of the early 90s? Put a cross in the correct box.

(1)

A ABBA ☒

B Deep Purple ☒

C The Kinks ☒

D Pink Floyd ☒

(b) Name the **tuned** percussion instrument played in the opening bars of the track.

(1)

(c) There is a pattern of changing time signatures throughout the introduction and verse. Complete the pattern below by filling in the missing time signature.

(2)

(d) What is the interval between the string parts throughout the introduction and the verse? Put a cross in the correct box.

(1)

A Thirds ☒

B Sixths ☒

C Octaves ☒

D Fifths ☒

(e) What effect is used on the held guitar chords which enter at 1'34"? Put a cross in the correct box.

(1)

A Chorus ☒

B Tremolo ☒

C Pitch shift ☒

D Filter Sweep ☒

*(f) Describe what is meant by 'Flange'?

(2)

.....

.....

(g) The production of this track involves extensive use of reverb. Which **two** of the following statements are true with reference to this recording? Put a cross in the **two** correct boxes.

(2)

A Reverb is used to even out the dynamics ☒

B Reverb is used to create a 'dreamy' quality ☒

C Reverb is used to give clarity to the strings ☒

D Reverb is used to create depth of field ☒

E Reverb is used to balance the mix ☒

(Total for Question 1 = 10 marks)

2 Madonna: *Frozen*

Track 2: Music begins at 0'05"

(a) Is this track in a major or a minor key?

(1)

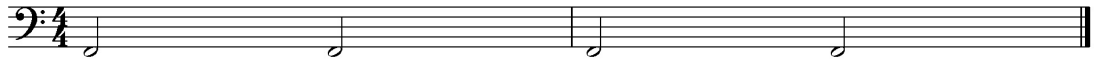
(b) What rhythm best represents the bass line when it enters at 0'35"? Put a cross in the correct box.

(1)

1. ☒

2. ☒

3. ☒

4. ☒ 

(c) The song could be described as a fusion of two styles, one dance style and one world music style. Which words below best describe that combination? Choosing **one** from **each** list, put a cross in the **two** correct boxes.

(2)

Dance Style		**World Music Style**	
Disco	☒	Bhangra	☒
Trip Hop	☒	Mexican Folk	☒
Urban	☒	Salsa	☒
House	☒	Calypso	☒

*(d) Timed delay is used extensively on this recording, particularly on the drum fills. Describe **two** of the parameters you might take into consideration when setting up this kind of FX processing and how this alters the sound. An example has been given.

Name of Parameter	How it affects the sound
Length of delay time	Determines the time between the input signal and the delayed signal / allows for rhythmic repetition

(2)

*(e) Describe the panning of the delayed retro synth sound between 3'56" and 4'05".

(2)

(Total for Question 2 = 10 marks)

3 Cat Stevens: *(Remember the Days of the) Old Schoolyard*

Track 3: Music begins at 0'08"

(a) What is the approximate tempo of this song expressed as beats per minute? Put a cross in the correct box.

(1)

A 80 bpm ☒

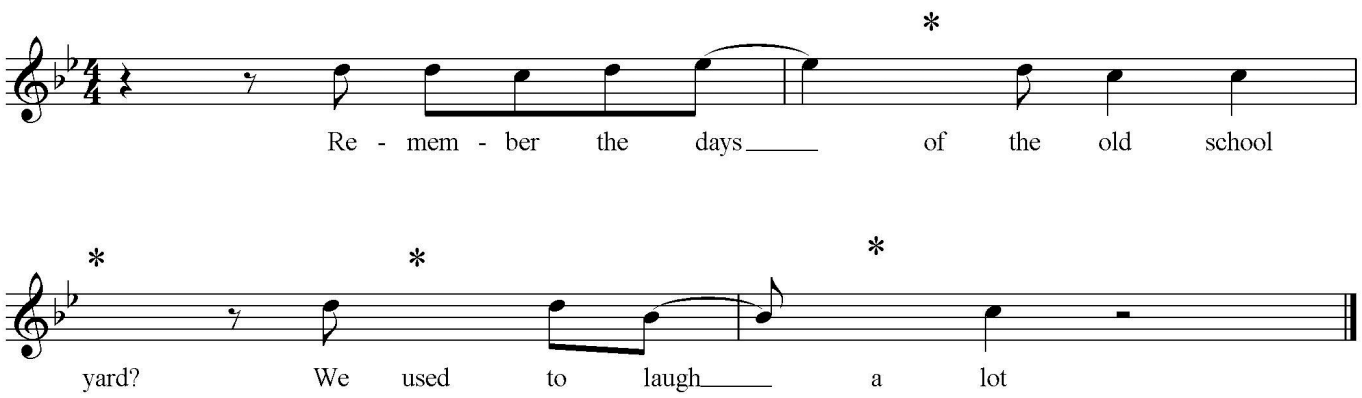
B 100 bpm ☒

C 130 bpm ☒

D 145 bpm ☒

(b) Fill in the **four** missing pitches from the opening vocal line (marked by an asterisk*).

(4)



*(c) The piano is a prominent part of this recording. How would you **close mic** a grand piano in stereo to achieve a similar punchy sound? Refer to your choice of microphones and mic placement in your answer.

(3)

Choice of mics

Mic placement

N 3 4 5 0 3 A 0 6 1 6

*(d) This track features the use of an early polyphonic synthesiser. How does a polyphonic synthesiser differ from the earlier monophonic synthesisers?

(1)

.....

.....

(e) What musical term describes the interaction between the male and female vocals from 1'26" onwards?

(1)

.....

(Total for Question 3 = 10 marks)

4 Bon Jovi: *Livin' On A Prayer*

Track 4: Music begins at 0'06"

*(a) Complete the table below to describe the production and arrangement in the introduction. Give **one** reference to instrumentation and **one** reference to the use of technology in each box.

The sections are shown in the table below, and an example has been given for you in the first section.

0'06" to 0'19"	• Sustained synthesiser pad, panned slightly right to begin with and then moving more centrally	
0'20" to 0'27"		**(2)**
0'28" to 0'43"		**(2)**
0'44" to 0'51"		**(2)**

N 3 4 5 0 3 A 0 8 1 6

(b) Which **two** performance techniques does the guitarist use in the solo line between 2'06" and 2'15"? Put crosses in the **two** correct boxes.

(2)

A Use of palm muting ☒

B Use of whammy bar ☒

C Use of feedback ☒

D Use of string bending ☒

E Use of tapping ☒

*(c) Describe **two** recording or mixing techniques, **other than reverb and dynamic processing**, that are used on the vocal tracks in the chorus (1'39" to 1'54").

(2)

1 .....

.....

2 .....

.....

(Total for Question 4 = 10 marks)

TOTAL FOR SECTION A = 40 MARKS

SECTION B

Answer BOTH questions

5 Special Focus Style: Rock and Roll

Johnny Otis: *Willie and the Hand Jive*

Track 5: Music begins at 0'07"

*(a) This is a 2003 re-recording (by the original artist) of a hit from 1958. Describe **four** improvements or changes you would expect to have taken place in this new recording and how these have been achieved. You may refer to recording quality, mixing and production values.

Improvement	How this has been achieved	
		(2)
		(2)
		(2)
		(2)

(b) What percussive sounds other than a drum kit are used to drive the rhythm on this track?

(2)

1 .....

2 .....

(c) The guitars and the drums on this track use a distinctive rhythm. Which 50s performer made that rhythm famous? Put a cross in the correct box.

(1)

A The Big Bopper ☒

B The Everly Brothers ☒

C Frankie Lymon ☒

D Bo Diddley ☒

*(d) Slap-back echo was used extensively on vocal tracks in early rock and roll recordings. Describe slap-back echo, how it was created in the 50s and how it is created using modern technology.

Description of slap-back echo	**(2)**
How it was created in the 50s	**(2)**
How it is created using modern technology	**(1)**

*(e) Describe the contribution made to rock and roll music by **one** of the following, referring to at least **one** track to illustrate your answer. Tick **one** box to indicate your choice.

(4)

☒ Chuck Berry ☒ Jerry Lee Lewis ☒ Sam Phillips

(Total for Question 5 = 20 marks)

6 Special Focus Style: Rap and Hip Hop

Lauryn Hill: *Lost Ones*

Track 6: Music begins at 0'06"

*(a) Hip Hop and Rap music often tend to feature relatively unchanging textures and simple structures. How has Lauryn Hill created textural and structural contrast in this track?

(4)

(b) Which beat of the bar does Lauryn Hill accent with her rapping in the opening four lines of the verse? (The tempo of the track is approximately 94 bpm.) Put a cross in the correct box.

(1)

A Beat 1 ☒

B Beat 2 ☒

C Beat 3 ☒

D Beat 4 ☒

(c) This track features examples of 'scratching'. Complete the following two statements to describe how this technique has developed.

(2)

Scratching was originally achieved with .....

.....

A modern method of creating this sound is .....

.....

*(d) Music technology has been used extensively in this recording. Using the table below, describe **five** examples of the use of technology, and comment on how it has enhanced the production of the song. Give precise locations.

Use of Technology	Instrument/ Voice	Location (e.g. 0'20")	Description	
Overdubbing			....	**(1)**
Effects processing			....	**(1)**
Stereo field/ panning			....	**(1)**
EQ			....	**(1)**
Sampling			....	**(1)**

*(e) Hip Hop tracks often use deliberately 'lo-fi' samples. Describe what is meant by the term 'lo-fi'.

(2)

.....

.....

*(f) These rap acts were all at the height of their popularity in different decades. Briefly describe their style, contribution or importance to the hip hop/rap genre.

70s The Sugarhill Gang

(2)

80s / 90s Public Enemy

(2)

00s Nelly

(2)

(Total for Question 6 = 20 marks)

TOTAL FOR SECTION B = 40 MARKS

TOTAL FOR PAPER = 80 MARKS

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Edexcel Limited gratefully acknowledges the following sources in the preparation of this paper:
Track 1 – Blur: *Parklife*, ℗ & © 1994 Food Ltd. under exclusive licence to EMI Records Ltd.
Track 2 – Madonna: *Ray of Light*, ℗ ©1998 Warner Bros. Records Inc.
Track 3 – Cat Stevens: *The Very Best of Cat Stevens*, ℗ © 2004 Universal Music TV, Music TV is a division of Universal Music Operations Limited
Track 4 – Bon Jovi: *Slippery When Wet*, © 1986 Mercury Records, a PolyGram company
Track 5 – Johnny Otis: *K-Tel Presents The 1950's High School Prom: 18 Teenage Memories*, © 2003 K-Tel International
Track 6 – Lauryn Hill: *The Miseducation of Lauryn Hill*, © 1998 Ruffhouse Records LP

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